## AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

(Currently Amended) A system for regulating communications

## Listing of Claims:

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2	between a plurality of transmitters and a receiver, comprising:			
3	a plurality of cells, wherein each cell controls communications from a			
4	transmitter in the plurality of transmitters to the receiver;			
5	wherein the plurality of cells are arranged in a token ring that regulates			
6	communications from the plurality of transmitters to the receiver; [[and]]			
7	wherein the presence of a token within a token ring cell indicates that the			
8	corresponding transmitter may communicate with the receiver; and			
9	wherein each cell further comprises an arbiter configured to block			
0	propagation of the token to a next cell until the corresponding transmitter			
1	completes its transmission.			
1	2. (Original) The system of claim 1, further comprising:			
2	a plurality of receivers; and			
3	a plurality of token rings, wherein each token ring passes a corresponding			
4	token among token ring cells that control communications from the plurality of			

(Currently Amended) The system of claim 2, wherein the plurality
of cells are <u>arranged aranged</u> in a grid wherein a row corresponds to a transmitter
and a column corresponds to a receiver.

transmitters to a receiver corresponding to the token ring.

1	4. (Original) The system of claim 1, wherein the communications can		
2	include one of:		
3	an electrical signal;		
4	a mechanical signal; and		
5	an optical signal.		
1	5. (Original) The system of claim 1, wherein each cell is configured		
2	to receive a request signal from a corresponding transmitter, and in response to		
3	the request signal, is configured to issue an acknowledgement signal to the		
4	corresponding transmitter which allows the corresponding transmitter to begin		
5	transmitting if the cell has the token.		

- 1 6. (Original) The system of claim 5, wherein each transmitter further
  2 comprises a reset mechanism that is configured to release the clearance to
  3 communicate with the receiver by resetting the request signal.
  - (Original) The system of claim 6, wherein the system further comprises an acknowledgement mechanism configured to confirm the release of the clearance by resetting the acknowledgement signal.
  - (Original) The system of claim 1, further comprising an initialization mechanism configured to initialize the single token in the token ring.
- 1 9. (Original) The system of claim 1, wherein the system operates 2 asynchronously.
  - 10. (Original) The system of claim 1, wherein the system additionally comprises a flow control mechanism configured to selectively limit the communications from the transmitter to the receiver at the request of the receiver.

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1	11. (Currently Amended) A method for regulating communications
2	between a plurality of transmitters and a receiver, comprising:
3	receiving a request signal from a transmitter at a cell in a plurality of cells
4	requesting to communicate with the receiver;
5	wherein the plurality of cells are arranged in a token ring that regulates
6	communications from the plurality of transmitters to the receiver, and wherein
7	each cell further comprises an arbiter configured to block propagation of the
8	token to a next cell until the corresponding transmitter completes its transmission;

in response to the request signal, issuing an acknowledgement signal to the transmitter which allows the transmitter to begin transmitting if the presence of a token is detected within the cell.

- 12. (Original) The method of claim 11, wherein the plurality of cells include a plurality of token rings, wherein each token ring passes a corresponding token among token ring cells that control communications from the plurality of transmitters to a receiver corresponding to the token ring.
- 13. (Original) The method of claim 11, wherein a plurality of cells that regulate communications between the transmitters and receivers are arranged in a grid wherein a row corresponds to a transmitter and a column corresponds to a receiver
- (Original) The method of claim 11, wherein the communications 14 2 can include one of: 3 an electrical signal: 4 a mechanical signal; and 5 an optical signal. 4

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1	15.	(Original) The method of claim 11, further comprising revoking			
2	the permission for the transmitter to communicate with the receiver when the				
3	transmitter resets the request signal.				
1	16.	(Original) The method of claim 15, further comprising resetting			
2	the acknowledgement signal to confirm the revocation of the permission for the				
3	transmitter to communicate with the receiver.				
1	17.	(Original) The method of claim 11, further comprising initializing			
2	the token in the token ring.				
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1	18.	(Original) The method of claim 11, wherein the system operates			
2	asynchronou	sty.			
1	19.	(Original) The method of claim 11, further comprising controlling			
2	the flow of communications by selectively limiting the communications from the				
3	transmitter to the receiver at the request of the receiver.				
	transmitter to	value receives at the request of the receives.			
1	20.	(Currently Amended) A multi-processor system, comprising:			
2	a plurality of processors;				
3	a plurality of transmitters associated with the processors;				
4	a plurality of receivers associated with the plurality of processors;				
5	a plurality of cells, wherein each cell controls communications from a				
6	transmitter in the plurality of transmitters to a receiver;				
7	wherein the plurality of cells are arranged in a token ring that regulates				
8	communications from the plurality of transmitters to a receiver; [[and]]				
9	wherein the presence of a token within a token ring cell indicates that the				

corresponding transmitter may communicate with the receiver; and

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- 11 wherein each cell further comprises an arbiter configured to block
- 12 propagation of the token to a next cell until the corresponding transmitter
- 13 completes its transmission.